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METHOD FOR PRODUCING SILICA GLASS

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ABSTRACT

PROBLEM TO BE SOLVED: To provide a method for producing a silica glass capable of producing a transparent and crack-free silica glass at a low cost in the production of a silica glass uniformly containing a high concentration B₂O₃.

SOLUTION: This method for producing a silica glass comprises the steps of (ST1) mixing aqueous solution containing boron with raw materials comprising silica fine particles to prepare mixed solution (sol solution) which is silica fine particles dispersed boron component containing aqueous solution, (ST2) gelling the mixed solution by adding an acid component, then (ST3) freeze-drying the gelled product, next (ST4) sintering the dried gelled product to obtain the silica glass containing B₂O₃.